What is claimed is:

- 1. A light-scattering sheet comprising a light-scattering layer which comprises a plurality of resins varying in refractive index and scatters an incident light isotropically, wherein the lightscattering layer has a ratio of a linearly transmitted light to an incident light of 0.1 to 15 % and has a phase separation structure having an average interphase distance of 3 to 15  $\mu$ m.
- 2. A light-scattering sheet according to Claim 1, 10 wherein the light-scattering layer expresses a lightscattering intensity profile having substantially flat area at scattering angle  $\theta$  of 3 to  $12^{\circ}$  from a scattering center.
- 15 3. A light-scattering sheet according to Claim 1, wherein the light-scattering layer have a ratio of a linearly transmitted light to an incident light of 3 to 10 %, a phase separation structure having an average interphase distance of 3 to 12 µm and an area where a 20 light-scattering intensity is substantially uniform at scattering angle  $\theta$  of 4 to  $8^{\circ}$  from a scattering center.
  - 4. A light-scattering sheet according to Claim 1, wherein in the light-scattering layer, the scattering

diffused light is 8 to 25 in respect to a light-scattering

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5. A light-scattering sheet according to Claim 1, wherein the light-scattering layer has a phase separation structure composed of a plurality of resins varying in refractive index, and has a bicontinuous phase structure formed by spinodal decomposition or an intermediate structure between the bicontinuous phase structure and a droplet phase structure.

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6. A light-scattering sheet according to Claim 1, which comprises a transparent or reflective support and the light-scattering layer formed on at least one side of the support.

7. A process for forming the light-scattering layer having the light-scattering properties recited in Claim 1, which comprises subjecting a resin layer composed of a plurality of resins varying in refractive index to spinodal decomposition.

8. A liquid crystal display device which comprises a liquid crystal cell having a liquid crystal sealed therein, a lightening means for illuminating the liquid crystal cell due to reflection or emergence disposed behind the liquid crystal cell, and a light-scattering sheet recited in Claim 1 disposed forwardly of the lightening means.

liquid crystal sealed therein, a reflecting means for

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crystal cell, and a light-scattering sheet recited in Claim 1 disposed forwardly of the reflecting means.

10. A liquid crystal display device according to Claim 8, wherein a polarizing plate is disposed forwardly of the liquid crystal cell, and a light-scattering sheet recited in Claim 1 is disposed between the liquid crystal cell and the polarizing plate.

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- 11. A light-scattering sheet according to Claim
  1, wherein the light-scattering layer comprises a first
  resin selected from the group consisting of a cellulose
  derivative and a (meth)acrylic resin, and a second resin
  selected from the group consisting of a styrenic resin,
  an alicyclic olefinic resin, a polycarbonate-series
  resin and a polyester-series resin.
- 12. A light-scattering sheet according to Claim
  11, wherein the weight ratio of the first resin to the second resin is 10/90 to 90/10.
- 13. A light-scattering sheet according to Claim
  1, wherein the light-scattering layer has a ratio of a
  20 linearly transmitted light to an incident light of 0.1
  to 13%, has a phase separation structure having an average
  interphase distance of 3 to 12 μm, and expresses a
  light-scattering intensity profile having substantially

light-scattering intensity in the flat area is 0 to 20 when a maximum tight eventually a solution to 20.

14. A process according to claim 7, which comprises removing a solvent from a liquid phase composed of a plurality of resins varying in refractive index and subjecting the phase to spinodal decomposition.

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